

THE · TECH



VOL.
19.

NO.
13.

DEC. 29,
1899.

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THE TECH

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BOSTON, DECEMBER 29, 1899.

NO. 13.

THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

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Editor in Chief, Monday, 12-1 P. M.
Business Manager, Saturday, 12-1 P. M.

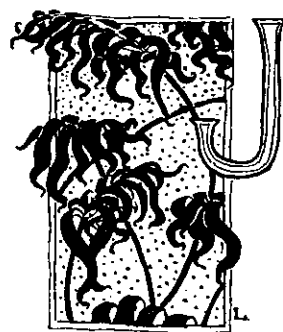
For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

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JUDGING from the amount of material brought out at the indoor meet and the good work done, the outlook for a first class track team next spring is most encouraging. The Freshmen candidates promise to play an important part in the dashes and hurdles. Winchester in the shot put is a promising '03 man, and with consistent training might give McDonald a good rub for first place. Crane is a good man for a place if he would only work into shape. Calley is a promising entry for the hurdles,

The surprise of the evening was the victory of the 1902 relay team over the crack representatives of 1900. The latter's team contained three of the regular relay team. The management deserves the highest praise for the excellent manner in which the events were run off. The wisdom of substituting the Class team race for the tiresome pole vault was amply demonstrated. We hope in the future the same policy will be pursued.

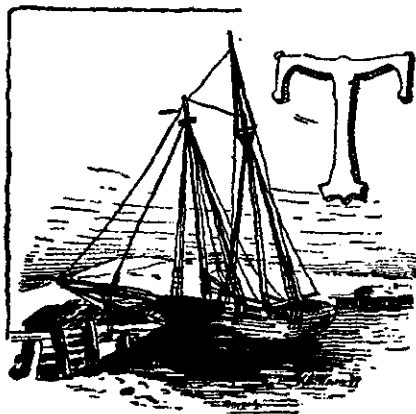


THE action of the Boston Common Council last week adds another chapter to the history of the Franklin Fund. For several years the trustees, the Board of Aldermen, the Common Council, and the Mayor have each in turn been suggesting ways in which the fund could be expended in accordance with the presumable views of Benjamin Franklin.

As the matter stands the money cannot be spent without the concurrence of all three. While this arrangement should protect the interests of the citizens of Boston the spirit in which the Aldermen and Councilmen have voted on the many propositions for the establishment of trades schools, baths, and the like has risen from petty selfishness or questions of political expediency. The wishes of Franklin and the true welfare of the people have become of secondary importance to the opposition of either branch of the municipal government to any order passed by the other.

A year ago but one vote was lacking to carry through a proposition by which Technology was to receive about a quarter of a million dollars from the fund. Another

Board of Aldermen came into office last January; the plan in which the Institute was concerned was entirely lost sight of; more or less wrangling has followed; and today the end of the matter is not even in sight. It is not asking too much to expect that those who now have this money in their control shall use their power in such a way that the people of Boston and not a few ward politicians and contractors shall receive some real benefit from Franklin's gift.

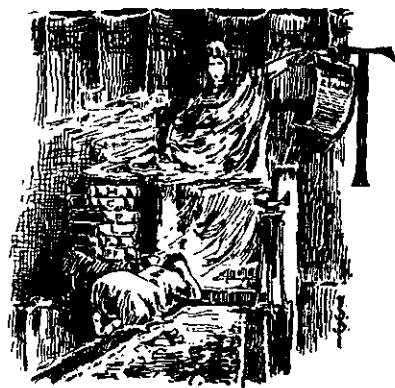


THE Institute has every reason to congratulate itself upon being honored with the responsibility of representing the United States in several branches of technical education. When one thinks of the great number of colleges and universities older than Tech. which have been passed over in the allotment of these exhibits, he can form but one opinion of this honor conferred upon us. It would seem that other men, — men of the greatest authority in educational matters, — think as General Walker did, that "This is a place for men to work, not for boys to play."

The recognition of Technology's work in lines not scientific, as evidenced by the requests of the United States Department of Economics and of the Massachusetts Commission on State exhibit that we should take charge of preparing exhibits requiring much careful work in making statistical charts, is especially gratifying.

The Committee of the Faculty, which has so well performed the work of arranging these exhibits, and those who have made such valuable geological collections certainly deserve the hearty thanks of every man here.

As for the exhibits themselves, they cannot but add to the most enviable reputation of Technology, both in Europe and in America.



THE Technology Alumnus and his Class dinner are just now very much in evidence. The Class of '99 celebrated its first winter as a graduate Class last Saturday, and the

Class of '98 holds its second reunion tomorrow evening, but tonight the representative dinner of all M. I. T. alumni, the annual banquet of the Technology Alumni Association, is to be held at the Exchange Club. This is an event of great moment to Technology and to Technology men. There is no better way of stirring up lost interest in Alma Mater, or of creating renewed enthusiasm, than by attending these dinners. Tonight's banquet will be especially enjoyable. The speakers include Pres. James M. Crafts, Frank W. Rollins, Governor of New Hampshire, and Desmond Fitzgerald, President of the American Society of Civil Engineers. In addition to the regular reports the committee on the Walker Memorial Gymnasium will present a report of progress. This alone should be sufficient to induce every alumnus to attend.

Tech Board Luncheon.

The annual photograph of the Board of Editors of THE TECH was taken at Chicker-ing's on Saturday, December 16. Following the photo., the party adjourned to "The Old Elm" in accordance with time-honored custom, and regaled themselves as only TECH Boards can. Mr. C. E. A. Winslow, '98, assumed the role of toastmaster, and was looked upon with envious eyes by H. L. Morse, '99, who had "dropped in" to fill that express office, as he afterwards confessed. Messages were received from many ex-editors.

The party separated after many anecdotes of past TECH Luncheons, and incidents dear to the heart of The TECH editor,

The Winter Concert.

The M. I. T. Glee, Banjo and Mandolin clubs gave their annual Winter concert in Huntington Hall on Wednesday evening, Dec. 20. It has come to mean a great deal when it can be truthfully said of the Winter concert, that it surpasses its predecessors, so high is their standard, and this year's performance, socially and musically, certainly equalled the best records of the past. As was done a year ago, the clubs decided to divide the profits with the Class of 1900, to help the Class out of debt, but the manager has not as yet received complete returns from the sales of tickets and no estimate of the receipts can be given. The decorations were, instead of the traditional red, white and blue, graceful festoons of red and black, a delicate compliment to the Senior class. The programs, while certainly in good taste, were designed to curtail expenses, and were simply printed on rough edged white paper, and only the leader's and officers' names appeared.

The Banjo Club played with a snap and expression which told in the enthusiastic applause, but to no disparagement of the other clubs. The Glee Club's rendition was very pleasing, and showed the accuracy due to good rehearsals, while the Mandolin Club eclipsed its numbers by their encores, and taking it altogether, no one could say without partiality which club surpassed the others.

Mr. Harry G. Johnson scored his usual hit with his solo. The program is given below:

PROGRAM.

PART I.

- | | |
|-----------------------------------|---------------|
| 1. Over the Hills at Break of Day | <i>Geibel</i> |
| GLEE CLUB. | |
| 2. Hannah's Promenade | <i>Ellis</i> |
| BANJO CLUB. | |
| 3. Ensueno Seductor | <i>Rosas</i> |
| MANDOLIN CLUB. | |
| 4. Duet. Selected. | |
| MR. FOSTER AND MR. BOYD, | |
| 5. Open Up de Gates of Glory | <i>Geibel</i> |
| GLEE CLUB. | |

- | | |
|-------------------------------|------------------------|
| 6. Waltz Medley | <i>Arr. by Lansing</i> |
| BANJO CLUB. | |
| PART II. | |
| 7. Hot Time in Mobile | <i>Carter</i> |
| MANDOLIN CLUB. | |
| 8. The Jolly Blacksmith's Lay | <i>Geibel</i> |
| GLEE CLUB. | |
| 9. The Fortune Teller March | <i>Herbert</i> |
| BANJO CLUB. | |
| 10. Solo Selected, | |
| MR. HARRY G. JOHNSON. | |
| 11. Sultana Waltz | <i>Nickerson</i> |
| MANDOLIN CLUB. | |
| 12. Doan Ye Cry, Ma Honey | <i>Noll</i> |
| GLEE CLUB. | |

'99 Alumni Dinner.

The first annual reunion and banquet of the Class of '99 was held at the Savoy Hotel on Saturday, December 23. It was of all '99 Class dinners the most enjoyable, inasmuch as it came after four years of constant association, and with formality totally wanting. Forty-two members of the graduate class attended. At the business meeting after the dinner, Mr. Edward H. Hammond's resignation as Vice-graduate Secretary was accepted and Mr. Myles S. Sherrill was elected to fill the vacancy. Messrs. Benj. E. Morse and Clifford M. Swan were elected to constitute the dinner committee for the coming year.

The toastmaster for the evening was Mr. Walter O. Adams. There were no set speeches, but the selections sung by Mr. Lewis Emery, III., and Mr. Adams, and the performances of Messrs. Perkins and Swan were well received. Return greetings were sent to Messrs. T. P. Robinson, H. K. Babcock, James MacBride and Bassett Jones.

The attendance at the dinner was very representative of the Class and large in proportion to the average alumni dinner. The ceremonies closed by singing "Auld Lang Syne," followed by '99 and Technology cheers.

I "read, mark, learn and inwardly digest them," said the old man as he swallowed the macaroni letters in his soup.— Ex.

The Indoor Meet.

The annual indoor meet of the M. I. T. A. A. took place last Friday evening in the gymnasium. The attendance was about a hundred, a smaller crowd than the merit of the meet deserved. The events were all well, and for the most part evenly, contested and the issue was in doubt till the tape was crossed.

Many new and promising men were brought out, several from the Freshman class showing up exceptionally well and promising an addition to the track team next spring. The omission of the pole vault and the addition of a class relay team race considerably shortened the duration of the meet without lessening the interest. The pole vault has always been a drag and occupied more time than the event was worthy of.

The 35-yard dash called out seventeen starters and five heats were run. The final heat was very close. In the final heat of the 35-yard hurdles, Wentworth, '00 and Calley, '03 ran a dead heat, with Pope, '02, third. The points for first place were divided. Wentworth won the toss for first medal, Calley taking second medal.

The team race was last upon the program and was most interesting and well contended. MacMasters, '00, Rowe, '01, Sawyer, '02 and Gleason, '03, lined up for the first dash of 35 yards, and were off with the pistol; Rowe dropped a few yards to the field on the way down. Grant, '00, Baxter, '01, Avery, '02 and Lord '03 took up the second dash and finished well in a bunch. Baxter misunderstood his instructions and lost considerable distance in starting, throwing '01 out of any place. Wentworth, '00, Garrett, '01, Brown, '02, Winchester, '03, started on the third lap; Hall, '00, Maxson, '01, Pope, '02, and Calley, '03, finishing the race. Hall and Pope running a dead heat with Calley third. In the run-off for first place Pope finished ahead of Hall thus winning the race for '02,

Summary of the events:—

THIRTY-FIVE YARD DASH—First heat, won by Brown, '02, time, 4 2-5s.; second, Wentworth, '00. Second heat, won by Hall, '00, time, 4 1-5s. second, Lowe, '02. Third heat, won by MacMasters, '00, time, 4 2-5s.; second, Lord, '03. Fourth heat, won by Calley, '03, time, 4 3-5s.; second, Maxson, '01. Heat for second men, won by Wentworth, '00, time, 4 3-5s.; second, Maxson, '01. Final heat, won by Wentworth, '00, time, 4 2-5s.; second, Hall, '00; third, Brown, '02.

THIRTY-FIVE YARD HURDLES—First heat won by J. F. Wentworth, '00, time, 4 4-5s.; second, Baker, '02. Second heat, won by R. A. Pope, '02, time, 5s.; second, Magninski, '03; third heat, won by Calley, '03, time, 5 1-5s.; second, A. W. Rowe, '01. Heat for second men, won by Baker, '02, time, 4 4-5s.; second, A. W. Rowe, '01. Final heat, J. F. Wentworth, '03, and Calley, '03, dead heat for first, time, 4 4-5s.; third, R. A. Pope, '02.

STANDING BROAD JUMP—Won by Baxter, '01, distance, 9 ft. 9¼ in.; second, Wilder, '01; third, Sawyer, '02.

RUNNING HIGH JUMP—Won by Baxter, '01, 5ft. 8¾ in.; second, Wentworth, '00; third, Pope, '02.

FENCE VAULT—Won by H. M. MacMaster, 6ft. 4½ in.; second, Conant, '00; third, F. K. Baxter, '01.

SHOT PUT—Won by McDonald, 35ft. 6½ in.; second, Winchester; third, Crane, '02.

POTATO RACE—First heat, won by Pope, '02; second, Lord, '03; time, 38 3-5s. Final heat, won by MacMasters, '00; second, Pope, '02; third, Baker, '02; time, 38s.

Summary of points won by classes:

Event.	1900.	1901.	1902.	1903
35-yard dash	8	—	1	—
35-yard hurdle	4	—	1	4
Potato race	5	—	4	—
Running high jump	3	5	1	—
Standing broad jump	—	8	1	—
Fence vault	8	1	—	—
Shot put	—	5	1	3
Totals	28	19	9	7
Fall meet totals	24	53	41	16
Totals to date	52	72	50	23

Although beaten last Friday, 1901 has still a comfortable lead, which 1900 will have hard work to overcome at the Spring Meet.

The Co-op.

The Directors of the Co-operative Society held a meeting in the Trophy Room on Friday, Dec. 22. Six hundred and seventy-five dollars was appropriated for Scholarships. President Sears was appointed to confer with Prof. D. R. Dewey in regard to the bestowal of the Scholarships. Tech. men should avail themselves more fully of the opportunities which membership in the Society confers. Tickets may still be obtained of the directors and at MacLachlan's,

Geological Department at Paris.

At the meeting of the Society of Arts on Thursday evening, December 14, a complete description was given of the work which the Institute is doing, under the direction of Prof. William H. Niles, in forming a complete collection of building stones and of mineral phosphates and carbonates for the Paris Exposition. The collection, which will form a part of the exhibit of the U. S. Department of Mines and Metallurgy, has been gathered by degrees since last summer until it is now practically complete. It will form but part of the entire collection, the other parts of which are being gathered together by other colleges as follows: by Colorado College, sulphides; by Columbia, silver, quartz and opal; by Chicago University, silicates; by Princeton University, metallic oxides; while by Technology is being collected the class of carbonates and phosphates.

Prof. William O. Crosby has had charge of collecting the minerals. He has gathered a splendid collection of about 400 specimens, which is noteworthy not so much on account of the prominence of any special part as on account of the general attractiveness and representative character of the selection as a whole.

Since the first of last July, Mr. Myron L. Fuller, instructor in geology at the Institute, has been busy in gathering the collection of building stones. He now has 325 samples, weighing altogether a little more than a ton, and these were all, by a special enactment of congress, gathered through the mails. The stones are divided into two classes, the ornamental stones, and the building or useful stones. Among the ornamental stones are onyx, serpentine and marble.

Among the building stones proper, are to be found granites of every variety. There is also a good set of sandstones, limestones, flagstones, bluestones, slates and soapstones.

The minerals were collected at a cost of about eight hundred dollars. Both of the collections will return to the Institute after the close of the exposition, and Technology will then have a collection superior to that of any school in the country, and surpassed by only one or two museum collections.

Provisional List of Subjects for Semi-annual Examinations.

FIRST YEAR.

Algebra. Military Science.

SECOND YEAR.

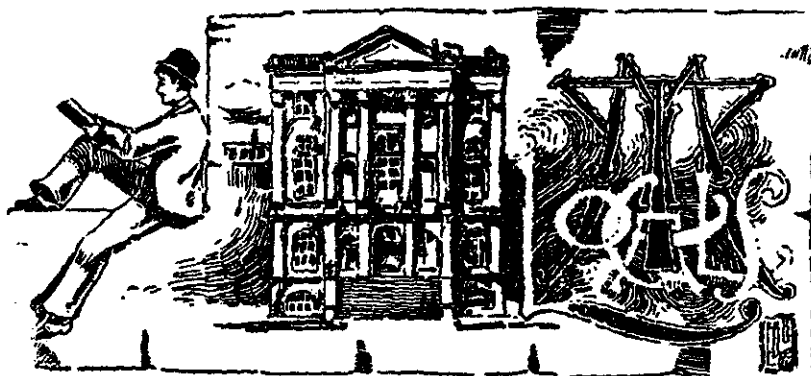
Accoustics. General Biology.
Anal. Chemistry. History of England.
Blowpipe Analysis. Materials.
Design. (Arch.) Microscopy.
Determinants. Organic Chemistry.
Economic Problems. Physics.
English Literature. Political Economy.
European History. Shades and Shadows.

THIRD YEAR.

Anal. Chemistry. Mining Engineering.
Anthropology. Naval Architecture.
Applied Mechanics. Organic Chemistry.
Assaying. Physics, Heat.
Comp. Anatomy. Political Economy.
Diff. Equations. Quaternions.
Dynamo-Elect. Meas. R. R. & Highway Engineering.
English Literature. Sanitary Chemistry.
European Civ. & Art. Sugar Analysis.
European History. Surveying.
Financial History. Telegraphy.
General Biology. Theoretical Chemistry.
Geology, Struct. Theoretical Electricity.
Geology, Hist. Theory of Equations.
Indust. Chemistry. Thermodynamics.
Indust. Electricity. Valve Gears.

FOURTH YEAR.

Air Analysis. Machine Design.
Anal. Chemistry. Metallurgy.
Anal. Mechanics. Metallurgy. (Elem.)
Applied Mechanics. Metallurgy of Iron.
Bacteriology. Micros. Anatomy.
Bridge Design. Mining Engineering.
Climatology. Naval Architecture.
Comp. Physiology. Oil Testing.
Const. Design. Organic Analysis.
Dynamo Testing. Organic Chemistry.
Elect. Engineering. Organic Preparations.
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Indust. Biology. Structures.
Indust. Electricity. Text. Coloring.
International Law. Theoretical Biology.
Least Squares. Theoretical Chemistry.



C. W. Corbett, 1901, has resigned from the Board of Editors of THE TECH.

Any student desiring to employ spare time in soliciting subscriptions for the periodicals of Harper Brothers is invited to consult Secretary Tyler.

For the convenience of students who are unable to purchase THE TECH during regular sales hours, we have arranged to place the paper on sale at the "Cage" where it may be obtained at any time.

The assignments for stations during the boiler tests in the Engineering Laboratory, from Jan. 2 to Jan. 13, have been posted in Rogers corridor and the Engineering Laboratory.

The M. I. T. Alumni Association holds its annual banquet at the Exchange Club tonight. Every alumnus should be on hand at 5.30. Tickets may be obtained of Dr. A. H. Gill, Secretary of the Association.

We are indebted to Professor Richards for the following corrections of typographical errors in No. 7 of THE TECH. D. A. Lylie, '84, III., should read D. A. Lyle, and R. N. Colby, '88, V., should read R. H. Colby.

The Society of Arts will hold its 533d regular meeting at the Institute on Thursday evening, December 28, at 8 P. M. Mr. Albert E. Leach, M. I. T. '86, analyst of the State Board of Health, will address the Society on "The Character and Extent of Food and Drug Adulterations in Massachusetts and the System of Inspection of the State Board of Health."



The Freshman class has two strong men in Calley and Winchester. Calley showed up in splendid form in the hurdles, and gives promise of good work in the future.

It is early perhaps to predict our chances at the Worcester meet next May, but it is not by any means too early to begin training for that meet. With this purpose in view, and also to provide for any meets that may take place during the coming winter or spring, Capt. Baxter has appointed men in charge of the various events. Students wishing to train or to try their ability in any branch of athletics should inquire at the gymnasium, between 4 and 6 P. M., for the men in charge of the events which they may wish to enter. The several events are in charge of the following men: 100-yard dash, J. F. Wentworth, '00; 220-yard dash, F. B. Dutton, '00; 440-yard dash, H. M. McMaster, '00; 1-2 mile run, W. W. Garrett, '01; 1-mile run, S. C. Sears, '00; 2-mile run, D. D. Field, '02; 120-yard hurdles, J. F. Wentworth, '00; 220-yard hurdles, R. L. Shephard, '01; running high jump, F. K. Baxter, '01; running broad jump, R. W. Pope, '02; pole vault, R. W. Pope, '02; putting 16-pound shot, H. P. McDonald, Jr., '01; throwing hammer, J. B. Laws, '01; two-mile bicycle race, Ray Murray, '01; throwing discus, E. P. Fleming, '01.

Calendar.

Friday, Dec. 29—5.30 P. M. M. I. T. Alumni Association, Annual Banquet, Exchange Club.

Saturday, Dec. 30. Class of '98, Dinner, Vendome.

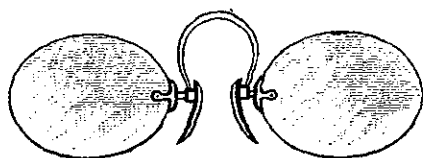
Monday, Jan. 1—1 P. M. Regular Meeting, Board of Editors, Tech Office.

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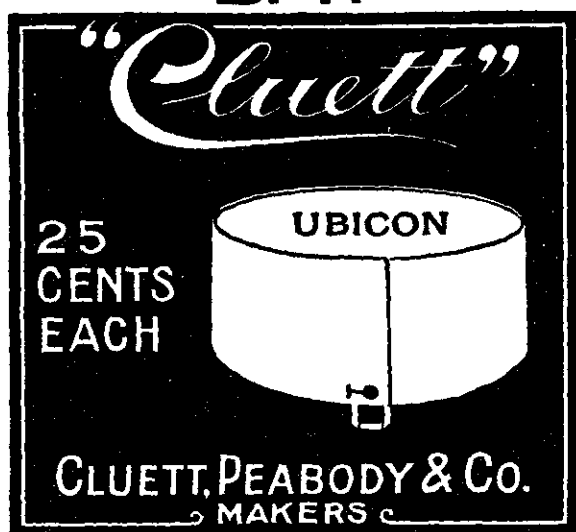
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'90. Mr. Samuel D. Flood, II., has gone to Dallas, Tex., to become District Manager of the American Cotton Co., of New York. This is the so-called "round bale system."

'91. James Swan, XIII., visited the Institute last week.

'93. Wm. W. Crosby, II., is Principal of the Lowell Textile School, Lowell, Mass.

'94. Mr. P. H. Coolidge, I., is now with the Western Electric Co. in New York City, having left Colorado early this fall.

'94. Mr. N. H. Janvrin, V., has left the Pennsylvania Steel Co., for the position of assistant bridge engineer with the Metropolitan Street Railway Co., of Kansas, City.

'95. Mr. Edmund D. Barry, XIII., who is with the Cramp Shipbuilding Company, spent Christmas at his home in Dorchester.

'99. C. B. Page, XIII., is with the Maryland Steel Co. He visited friends in Boston during the Christmas vacation.

'99. Allen Loomis, XIII., formerly with the Fore River Engine Co., paid a visit to his old haunts last week.

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It was with a true pleasure, especially for this suggestive time of the year, that THE LOUNGER saw all his fellow-conspirators of the Board in so thoroughly contented and happy a condition as they were about noon — on a recent Saturday. The wan and solicitous countenance of his editor shone with a calm and satisfied expression that THE LOUNGER had not encountered before for many a day; and the wanner and even more solicitous visage of the Business Manager reflected the general peace and good will towards men, with personal embellishments of no inappreciable degree. The editorial shears were cast aside while the carving-knife filled the vacancy, doing similar execution in a much more generally improved manner. The blue pencil was relegated to a vest pocket; and in the corresponding receptacle on the other side reposed an "Old Elm" spoon, especially elevated for the occasion. The other members of the *bored* for once did not look it; and as the flowing flagon completed its n'th round, even THE LOUNGER felt the popular exhilaration and conceived a witty remark which would now be well on the road to fame, had not the sudden collapse of its creator caused it to remain unuttered on his lips. In fact, THE TECH Lunch was a great act — for just once a year.

It is not without a feeling of relief that THE LOUNGER hears of the benevolent action taken by a certain Professor in Mechanical Drawing in regard to the more complete welfare of the tender Freshmen during those hours of the week when they come under his care. The Freshmen are now in the midst of their initiation into the mysteries and witcheries of Projections, and it is for their encouragement in this tangled art that the kindly Professor has introduced the innovation. Upon the top of the dividing wall of each double drawing-desk there has been placed a six-inch, vertical, wooden shield, so arranged that it cannot be revolved into H, (however much the objurgations of the Freshmen may be directed to that end) and can be seen over only at an angle so great that the line of vision would pierce the optical ground line at a point far beyond the limits of the desk top in front. In other words, it renders friendly

interest in the neighboring plates a visual impossibility. It has been hinted that this is so in order that the Freshmen may not indulge in cooperative solution of Descrip. examinations, but THE LOUNGER knows this idea to be thoroughly spurious. The real object is that the earnest student shall no more be able to look up suddenly and see in the countenance of the brother worker opposite him the expression of distress which is occasioned by the examination which he is flunking, or perchance the look of alarm that heralds the approach of the popular Professor previously referred to. The happy Freshman, thus relieved of these perturbing influences, will now be able to perform his valued Projections in an atmosphere of increased and thickened comfort and mental security; and for the encouragement thus obtained, gratitude will be due only and all to the magnanimity of the fatherly Descriptist.



The prodigal habits which characterize the period of December 25, has spread to the office of THE TECH in a contagion that is as unique in a decade as Christmas in the year. The fact is,—let THE LOUNGER whisper it,—THE TECH office is going to be furnished ("refurnished," the records say) and generally made into a habitable place and new kind of asylum altogether. The cause of this is that the Business Manager has found that, by some unforeseen accident, a surplus has occurred on his books; and, fearing that the normal financial system will be demolished and that a chaos of new conditions will arise if this unwonted state of affairs continues for any length of time, the Secretary of THE TECH Treasury has decided to increase the national monetary circulation by expending this surplus in the quickest possible order. The physical effect of this agitation falls, as usual, upon the office of THE TECH. Shocked in the conservatism that so naturally identifies itself with his disposition, THE LOUNGER laments the prospective change and already bemoans the loss of his two-legged chair, as he sees in dire vision his old writing table provided with new pedimental supports so that it can preserve its equilibrium without the friendly help of a supporting wall. Consolation is felt, however, as he sees a Morris chair purchased, a fireplace built, and a banquet-lamp provided. Then, as a little portable chapel-service, with a glass, is placed upon the mantel, he seizes the accompanying cigar and feels that the prophecy of the cut at the head of the column has indeed come true. Which proves that true inspiration was no less prevalent with the earlier editors of THE TECH than it is with those of today.

Those early pioneers in journalism laid the foundations as it were, or in other words, they drew the picture of what the financial success of the present editors is about to make a reality.

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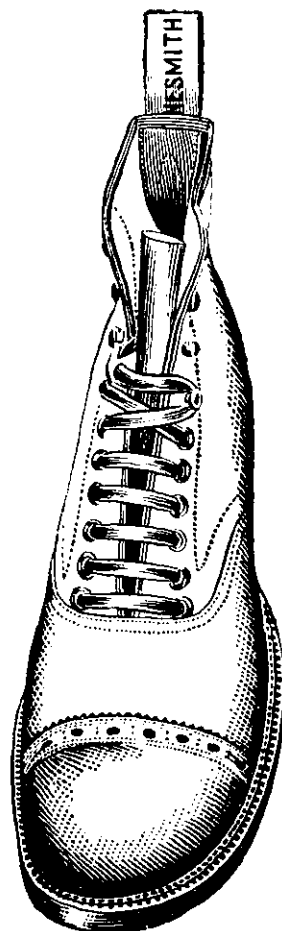
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Boston Museum.— "The Boston theatre-goers are to be given a chance to see "In Wall Street," which has had such a record for good fun as to keep all New York laughing for the past four months. This play is presented by the Rogers Brothers and an excellent supporting company.



Tremont Theatre.— "Becky Sharp," founded on Thackeray's "Vanity Fair," will be played by Mrs. Fiske. This is sure to be a very successful play on account of the book from which it is taken and also because of the actress who presents it. Mrs. Fiske is well known in Boston and is always a favorite.



Castle Square Theatre.— "Under Flying Colors," is the next play to be given by the regular Stock Company. It will be the first time this play has ever been seen on an American stage. It was written by Seymore Hicks and Fred G. Latham and has been played in London with great success.

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